Jaemin **Choi**

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Education

KAIST   *Daejeon, South Korea*
M.S. IN SCHOOL OF COMPUTING (EXPECTED)   *Sep. 2021 - Aug. 2023*
- Advisor: Prof. Jeehoon Kang
- Lab: Concurrency and Parallelism Laboratory

KAIST   *Daejeon, South Korea*
B.S. IN SCHOOL OF COMPUTING   *Mar. 2017 - Aug. 2021*

Skills

Programming	Python, Rust, C++
System	Linux
Cloud	Heroku
Misc	Competitive Programming, Coq, LaTeX
Language	Korean, English

Experience

KAIST   *Daejeon, S.Korea*
TEACHING ASSISTANT   *Mar. 2021 - Aug. 2022*
- CS230 System Programming
- CS220 Programming Principles

Publication

Formal Verification of Chase-Lev Deque in Iris Separation Logic
JAEMIN CHOI   *2023*
MS Thesis.

Modular Verification of Safe Memory Reclamation in Concurrent Separation Logic
Jaehwang Jung, Janggun Lee, **Jaemin Choi**, Jaewoo Kim, Sunho Park, Jeehoon Kang   *2023*
Submitted to ACM SIGPLAN conference on Object-oriented Programming, Systems, Languages, and Applications (OOPSLA).

Compass: Strong and Compositional Library Specifications in Relaxed Memory Separation Logic
Hoang-Hai Dang, Jaehwang Jung, **Jaemin Choi**, Duc-Than Nguyen, William Mansky, Jeehoon Kang, Derek Dreyer   *2022*
ACM SIGPLAN conference on Programming Languages Design and Implementation (PLDI).

Honors & Awards

INTERNATIONAL AWARDS

2022	**26th Place**, ICPC World Finals Dhaka		*Dhaka, Bangladesh*

DOMESTIC AWARDS

2020	**2nd Place**, ICPC Seoul Regional		*Online*
2020	**3rd Place Award**, Samsung Collegiate Programming Cup		*Online*
2019	**7th Place**, ICPC Seoul Regional		*Seoul, S.Korea*
2019	**4th Place Award**, Samsung Collegiate Programming Cup		*Seoul, S.Korea*
2018	**11th Place**, ICPC Seoul Regional		*Seoul, S.Korea*
2018	**Winner**, KAIST ACM-ICPC Mock Competition		*Daejeon, S.Korea*

Projects

Slack Bot "no"

Apr. 2018 - Jun. 2022

- General-purpose Slack bot supporting various features including todo list, highly configurable Wordle game, image storage, and more
- Wraps Slack's JSON-based API into a higher-level Python API so that others can more easily contribute
- Implemented in Python with Slack events API and Dropbox API
- Hosted on Heroku server
- (Yes, the bot is actually named "no")

Extracurricular Activity

Samsung Software Membership

Seoul, S.Korea

Member

Aug. 2020 -

- Membership for Samsung Collegiate Programming Cup award winners & equivalents.
- Wrote posts about advanced algorithms.

Competitive Programming Problem Writer

Jun. 2017 -

- Problem writer for several programming contests, including:
  - 2017, 2021, 2022 UCPC Programming Contest
  - 2017, 2019, 2020, 2021 KAIST ACM-ICPC Mock Competition
  - 2021 KAIST RUN Spring Contest

RUN (Algorithmic Problem Solving Club of KAIST)

Daejeon, S.Korea

Member & President in 2020

Mar. 2017 - Feb. 2021

- Gained knowledge and experience about competitive programming and algorithms.
- Won awards in several programming contests.
- Problem author of the school programming contests for 4 years.
- Worked as the club president in 2020: taught basic algorithms, and organized 2020 KAIST ACM-ICPC Mock Competition.